

January 27, 1964

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Skelly Oil Company  
P. O. Box 1650  
Tulsa 2, Oklahoma

Attn. Mr. George W. Selinger  
Manager of Conservation

Dear Mr. Selinger:

Reference is made to your application to the New Mexico Oil Conservation Commission which seeks approval to dispose of salt water by injection into a porous formation not productive of oil or gas. The application is dated January 13, 1964 and the well to be used for disposal purposes is your State "O" Well #13 in Unit F, Section 31, Township 16 South, Range 37 East, Lea County, New Mexico. Please furnish me, at your earliest convenience, a copy of the analysis of the produced water to be disposed of and an analysis of the water from the formation into which the disposal will be made. I will be able to state my position to the Oil Conservation Commission as soon as the requested analyses are received.

Yours truly,

S. E. Reynolds  
State Engineer

FEI/ma  
cc-A. L. Porter, Jr.

By:  
Frank E. Irby  
Chief  
Water Rights Division



# SKELLY OIL COMPANY

P. O. Box 1650  
TULSA 2, OKLAHOMA

## PRODUCTION DEPARTMENT

C. L. BLACKSHER, VICE PRESIDENT

W. P. WHITMORE, MGR. PRODUCTION

W. D. CARSON, MGR. TECHNICAL SERVICES

ROBERT G. HOLTZ, MGR. JOINT OPERATIONS

GEORGE W. SELINGER, MGR. CONSERVATION

January 14, 1964

Subject: Lovington (Abs) S.W.D.S.  
Formerly State "O" Well No. 13  
Lea County, New Mexico

New Mexico Oil Conservation Commission  
P. O. Box 371  
Santa Fe, New Mexico

Gentlemen:

We are enclosing three copies of our application for permission to convert the captioned well for salt water disposal purposes. The disposal zone will be one not productive of oil or gas. We make this application under Rule 701(c), which provides for administrative approval.

We are attaching to our application a diagrammatic sketch showing the proposed subsurface installation, as well as a plat of the area indicating the wells and lessees within at least a two-mile radius of the proposed injection well. We are, also, attaching a full-scale electrical log, and a copy of a letter sent to all offset operators, the surface owner, and the State Engineer.

Should you require additional data or information, please advise.

Yours very truly,

RJJ:br  
Attach.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

APPLICATION 23  
TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION  
NOT PRODUCTIVE OF OIL OR GAS

Operator Skelly Oil Company Address P. O. Box 730, Hobbs, New Mexico

Lease State "0" Well No. 13 County Lea

Unit F Section 31 Township 16 South Range 37 East

This is an application to dispose of salt water produced from the following pool(s):

Lovington (Abo)

Name of Injection Formation(s): Bowers Sand (Seven Rivers)

Top of injection zone: 3640' Bottom of injection zone: 3890'

Give operator, lease, well no., and location of any other well in this area using this same

zone for disposal purposes: Unknown

CASING PROGRAM

	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	13-3/8"	246'	245	Circulated
Intermediate	9-5/8"	3270'	1400	Circulated
Long String	5-1/2"	11,044'	1982	3600' or above (see sketch)

Will injection be through tubing, casing, or annulus? Tubing

Size tubing: 2-7/8" OD Setting depth: 3725' (approx.) Packer set at: 3725' (approx.)

Name and Model No. of packer: 2-1/2" x 5-1/2" Tension Packer

Will injection be through perforations or open hole? Perforations

Proposed interval(s) of injection: 3640' - 3890'

Well was originally drilled for what purpose? Producing oil well

Has well ever been perforated in any zone other than the proposed injection zone? Yes

List all such perforated intervals and sacks of cement used to seal off or squeeze each:

See Attached Sheet

Give depth of bottom of next higher zone which produces oil or gas: None

Give depth of top of next lower zone which produces oil or gas: 3950' (Queen)

Give depth of bottom of deepest fresh water zone in area: 200' (Ogallala)

Expected volume of salt water to be injected daily (barrels): 700 bbl. initial (3,000 bbl. max.)

Will injection be by gravity or pump pressure? Pump Press. Estimated pressure: Unknown

Is system open or close type? Closed Is filtration or chemical treatment necessary? No

Is the water to be disposed of mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

Is any water occurring naturally within the proposed disposal formation mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

List all offset operators to the lease on which this well is located and their mailing address

Amerada Petroleum Corporation, Ashland Oil & Refining Co., Late Oil Company,  
Mobil Oil Company, Resler & Sheldon, Shell Oil Company, Sinclair Oil & Gas Company,  
Sunray DX Oil Company, Texaco, Inc., Tidewater Oil Company

(For addresses, see attached sheet)

Name and address of surface owner State of New Mexico, Commissioner of Public Lands,  
Santa Fe, New Mexico

Have copies of this application been sent by registered mail or given to all offset operators, surface owners, and to the New Mexico State Engineer? Yes

Is a complete electrical log of this well attached? Yes

Operator: Skelly Oil Company

By: *George W. Selinger*  
George W. Selinger

Title: Manager of Conservation

STATE OF OKLAHOMA )  
 ) ss.  
County of TULSA )

BEFORE ME, The undersigned authority, on this day personally appeared George W. Selinger known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN TO before me this the 13th day of January,  
19 64.

*Dora E. Peres*  
Notary Public in and for the County of Tulsa, Oklahoma

*July 23, 1964*  
My Commission Expires

NOTE: Should waivers from all offset operators, the surface owner, and the State Engineer not accompany an application, the New Mexico Oil Conservation Commission will hold the application for a period of fifteen (15) days from date of receipt by the Commission's Santa Fe office. If at the end of said fifteen-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

LOVINGTON (ABO) S.W.D.S. WELL NO. 1  
(Formerly State "O" Well No. 13)  
Unit "F" Sec. 31-16S-37E  
Lea County, New Mexico

List of perforated intervals and sacks of cement used to seal off or squeeze each:

Well plugged back as follows:

Open hole 11,989-12,251' w/ 100 sx. plug.  
Open hole 11,497-11,760' w/ 100 sx. plug.  
Open hole 11,070-11,333' w/ 100 sx. plug.  
Open hole 11,044-11,060': squeezed w/ 43 sx. 7200#.  
Perf. 10,930-10,968': covered by retainer @ 10,652'.  
Perf. 10,534-10,614': squeezed w/ 65 sx. 7000#.  
Perf. 10,546-10,612': squeezed w/ 55 sx. 7400#.  
Perf. 10,536-10,592': produced for 90 days.

Drilled out to 11,015' and re-completed well from all perfs. (10536-10,968'). Later set C. I. Bridge plug @ 6298' and dumped 28 gallons Hydromite on top. Perfs. 6112-6254': Present producing perforations.

List of offset operators:

Amerada Petroleum Corp.  
Petroleum Life Bldg.  
Midland, Texas

Sinclair Oil & Gas Co.  
Box 1470  
Midland, Texas

Ashland Oil & Refining Co.  
2009 Tower Bldg.  
Denver, Colorado

Sunray DX Oil Company  
308 West Taylor  
Hobbs, New Mexico

Late Oil Co.  
Box 670  
San Angelo, Texas

Texaco, Inc.  
Box 3109  
Midland, Texas

Mobil Oil Co.  
Box 2406  
Hobbs, New Mexico

Tidewater Oil Company  
Box 1404  
Houston, Texas

Resler & Sheldon  
Carper Bldg.  
Artesia, New Mexico

Shell Oil Co.  
Box 845  
Roswell, New Mexico

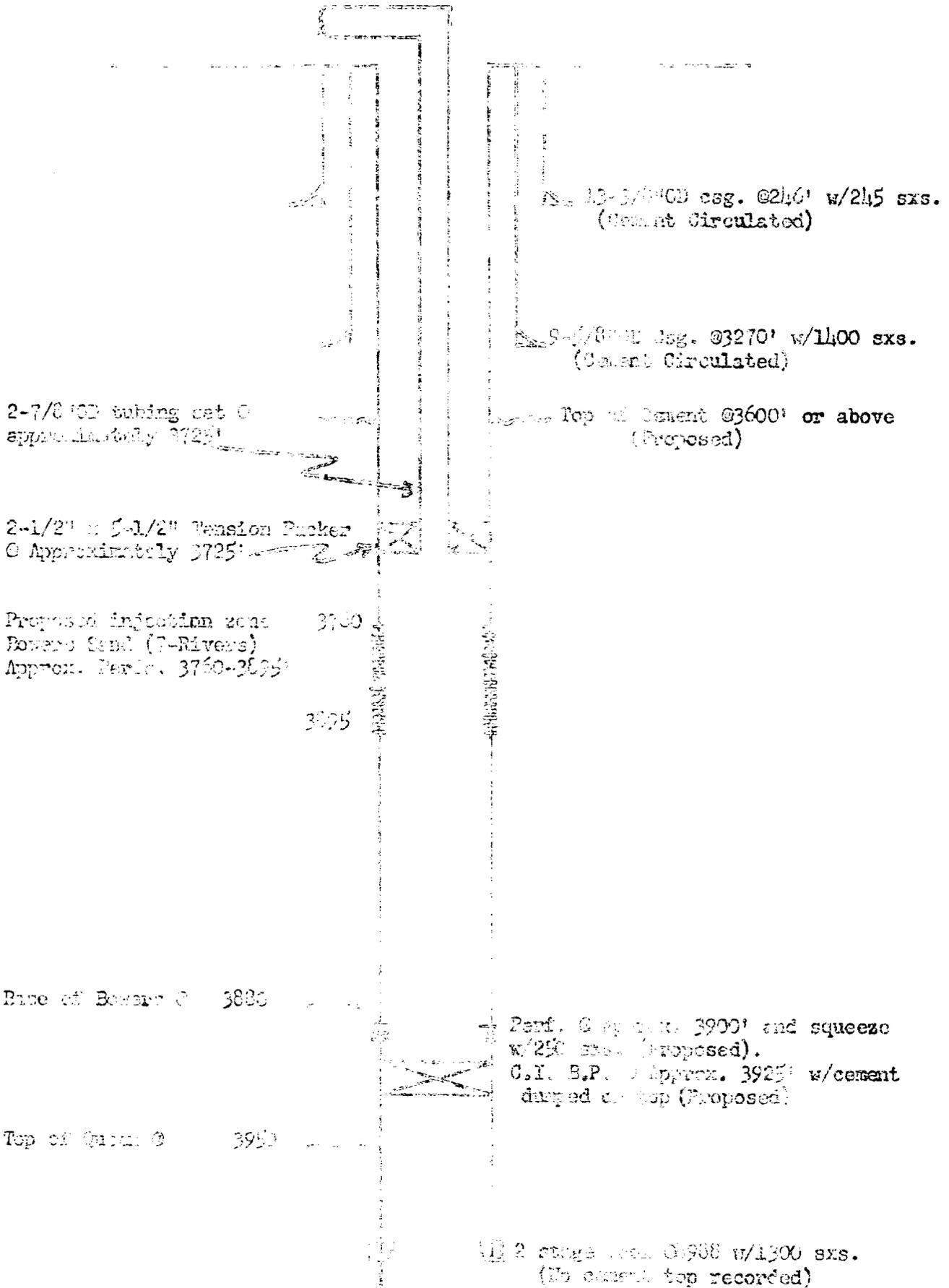
REGULATORY DIVISION  
 OF  
 THE STATE OF NEW MEXICO

Company Skelly Oil Company

Lease Livingston (Abo) S.W.D.S. Well No. 1  
 (Formerly State Well No. 13)

Location 2310' FNL 2526' FNL Section 31-T16S-R37E

County Lea State New Mexico





# SKELLY OIL COMPANY

P. O. Box 1650  
TULSA 2, OKLAHOMA

PRODUCTION DEPARTMENT

C. L. BLACKSHER, VICE PRESIDENT

W. P. WHITMORE, MGR. PRODUCTION

W. S. CARSON, MGR. TECHNICAL SERVICES

ROBERT E. MILTE, MGR. FIELD OPERATIONS

GEORGE W. BELINGER, MGR. CONSERVATION

January 13, 1964

VIA CERTIFIED MAIL

Commissioner of Public Lands, P. O. Box 791, Santa Fe, New Mexico  
State Engineer, P. O. Box 1079, Santa Fe, New Mexico  
Amerada Petroleum Corp., Petroleum Life Bldg., Midland, Texas  
Ashland Oil & Refining Co., 2009 Tower Bldg., Denver, Colorado  
Late Oil Co., Box 670, San Angelo, Texas  
Mobil Oil Company, Box 2406, Hobbs, New Mexico  
Resler & Sheldon, Carper Bldg., Artesia, New Mexico  
Shell Oil Co., Box 845, Roswell, New Mexico  
Sinclair Oil & Gas Co., Box 1470, Midland, Texas  
Sunray Oil Co., 308 West Taylor, Hobbs, New Mexico  
Texaco, Inc., Box 3109, Midland, Texas  
Tidewater Oil Co., Box 1404, Houston, Texas

Gentlemen:

Pursuant to Rule 701(c) of the New Mexico Oil Conservation Commission, we are furnishing you with a copy of our application for permission to inject salt water into a porous formation not productive of oil or gas in our State "O" Well No. 13, Lea County, New Mexico.

Yours very truly,

RJJ:br  
Attach.

cc-New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

February 10, 1964

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, N. M.

Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Commission  
Santa Fe, New Mexico

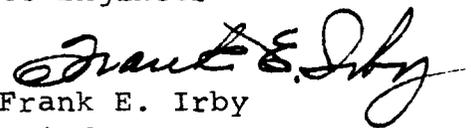
Dear Mr. Porter:

Reference is made to the application of Skelly Oil Company dated January 13, 1964 which seeks permission to dispose of salt water by injection into the Bowers Sand (Seven Rivers) through their State "O" Well No. 13 in Unit F of Section 31, Township 16 South, Range 37 East, Lea County, New Mexico.

Since injection is to be down 2 7/8" O. D. Tubing, discharging under a packer set at approximately 3725' below land surface it appears that no threat of contamination to the fresh waters which may exist in the area will occur. Therefore, this office offers no objection to the granting of this application.

Very truly yours,

S. E. Reynolds  
State Engineer

By:   
Frank E. Irby  
Chief  
Water Rights Division

FEI/ma  
cc-Skelly Oil Co.  
F. H. Hennighausen

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE